

ABSTRACT OF DISCLOSURE

A consumable product unit, a consumable product replacement sensing apparatus and a method thereof are provided. First through third connection terminals of the consumable product unit are respectively and electrically connected to fourth through sixth connection terminals of the consumable product replacement sensing apparatus. A new product determining signal generating unit generates a signal corresponding to an effective resistance value of the consumable product unit connected to the consumable product replacement sensing apparatus through the fourth and fifth connection terminals. If the consumable product unit is new determined to be, an over-current supplying unit supplies an over-current to disconnect a fusible resistor of the consumable product unit and the new product determining signal generating unit generates the signal corresponding to an effective resistance value of one determining element of the consumable product unit. An engine control unit determines whether the consumable product unit is usable.